

CLAIMS

What is claimed is:

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- 1 1. A method comprising:
2 measuring cumulative mesh network viability based upon packet loss
3 information calculated from packets transmitted from at least one of a plurality of
4 nodes.
- 1 2. The method of claim 1 wherein the wireless network is an ad hoc wireless
2 network.
- 1 3. The method of claim 1 further comprising storing the packet loss information
2 at the at least one server.
- 1 4. The method of claim 3 wherein said storing the packet loss information
2 comprises network protocol processing a received packet upon receipt of the received
3 packet at the at least one server.
- 1 5. The method of claim 3 wherein said storing the received packet at the at least
2 one server comprises processing the received packet at a time period subsequent to
3 the arrival of the received packet at the server.
- 1 6. The method of claim 3 wherein said storing the received packet at the at least
2 one server comprises associating an identifier with the received packet prior to
3 processing the received packet.

1 7. The method of claim 3 wherein said storing the received packet at the at least
2 one server further comprises comparing the packet with a plurality of previously
3 received packets to determine whether a duplicate packet had been transmitted.

1 8. The method of claim 7 wherein the at least one server discards the received
2 packet in response to detecting that the received packet is a duplicate packet that has
3 been transmitted.

1 9. A wireless network comprising:
2 a plurality of nodes configured to at least transmit packets in the wireless
3 network;
4 at least one server operably configured to calculate packet loss information in
5 the wireless network during packet transmission from at least one of the plurality of
6 nodes such that overall mesh network viability of the wireless network is measured in
7 the wireless network; and
8 a store for storing the packet loss information.

1 10. The wireless network of claim 9 wherein the store for storing the packet loss
2 information is at the at least one server.

1 11. The wireless network of claim 9 wherein the store for storing the packet loss
2 information is operably configured for access at a future period of time.

1 12. The wireless network of claim 9 wherein the store for storing the packet loss
2 information is operably configured for processing out-of-order packets.

1 13. The wireless network of claim 9 wherein the server discards the packets.

1 14. A wireless network comprising:
2 a plurality of nodes configured to at least transmit packets in the wireless
3 network;
4 at least one memory medium, the at least one memory medium having an
5 instruction set operably configured to calculate packet loss information in the wireless
6 network during packet transmission from at least one of the plurality of nodes in the
7 wireless network such that overall mesh network viability of the wireless network is
8 measured in the wireless network; and
9 a store for storing the packet loss information. .

1 15. The wireless network of claim 14 wherein the store for storing the packet loss
2 information is at at least one server.

1 16 The wireless network of claim 14 wherein the store for storing the packet loss
2 information is operably configured for access at a future period of time.

1 17. The wireless network of claim 14 wherein the store for storing the packet loss
2 information is operably configured for processing out-of-order packets.

1 18. The wireless network of claim 14 wherein the server discards the packets when
2 duplicate packets are detected.

1 19. A memory medium comprising:
2 a set of instructions operably configured to calculate packet loss information in
3 a wireless network during packet transmission from at least one of a plurality of nodes
4 in the wireless network such that overall mesh network viability of the wireless
5 network is measured.

1 20. The memory medium of claim 19 wherein the packet loss information is stored
2 in a store at at least one server in the wireless network.

1 21. The memory medium of claim 19 wherein the packet loss information tracks
2 packets regardless of an order that the packets are received at at least one server in
3 the wireless network.

1 22. An article comprising:
2 a storage medium comprising machine-readable instructions stored thereon
3 to:
4 calculate packet loss information in a wireless network during packet
5 transmission from at least one of a plurality of nodes in the wireless network such
6 that overall mesh network viability of the wireless network is measured.

1 23. The article of claim 22, wherein the wireless network comprises an ad hoc
2 wireless network.

1 24. The article of claim 22, wherein the storage medium further comprises
2 machine-readable instructions stored thereon to:
3 store the packet loss information at at least one server for access at a future
4 period of time.

1 25. The article of claim 24, wherein the storage medium further comprises
2 machine-readable instructions stored thereon to:
3 process a received packet upon receipt of the received packet at the at least
4 one server.

1 26. The article of claim 24, wherein the storage medium further comprises
2 machine-readable instructions stored thereon to:
3 process the received packet at a time period subsequent to the arrival of the
4 received packet at the at least one server.

1 27. The article of claim 24, wherein the storage medium further comprises
2 machine-readable instructions stored thereon to:
3 associate an identifier with the received packet prior to processing the received
4 packet.

1 28. The article of claim 24, wherein the storage medium further comprises
2 machine-readable instructions stored thereon to:
3 compare the packet with a plurality of previously received packets to determine
4 if duplicate packets have been transmitted.

1 29. The article of claim 28, wherein the storage medium further comprises
2 machine-readable instructions stored thereon to:
3 cause the at least one server to discard the received packet in response to
4 detecting that the received packet is a duplicate packet that has been transmitted.

1 30. A system comprising:
2 a plurality of nodes configured to at least transmit packets in a wireless
3 network;
4 at least one server operably configured to calculate packet loss information in
5 the wireless network during packet transmission from at least one of the plurality of
6 nodes such that overall mesh network viability of the wireless network is measured in
7 the wireless network, the at least one server having an ethernet adapter for wired
8 communications; and
9 a store for storing the packet loss information.

1 31. The method of claim 2 wherein mesh network viability is the cumulative packet
2 loss in the ad hoc wireless network.

1 32. The method of claim 3 where said storing the packet loss information at the at
2 least one server is for access at a future period of time.